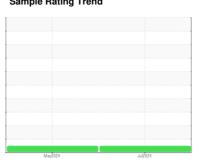


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

PETERBILT Truck 20

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

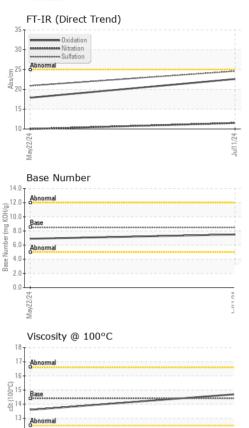
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			May2024	Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	IATION		IIIIIIIIIIII		•	
Sample Number		Client Info		SBP0007731 11 Jul 2024	SBP0007729	
Sample Date Machine Age	mls	Client Info		444000	22 May 2024 380000	
Oil Age	mls	Client Info		15000	16000	
Oil Changed	11113	Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel	•	WC Method	>5		<1.0	motoryz
Water		WC Method		<1.0 NEG	<1.0 NEG	
Glycol		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	39	58	
Chromium	ppm	ASTM D5185m	>4	1	1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	0	<1	<1	
Silver	ppm	ASTM D5185m	>2	0 3	<1	
Aluminum	ppm	ASTM D5185m ASTM D5185m		4	2	
Lead	ppm	ASTM D5165III	>45	1	2	
Copper Tin	ppm ppm	ASTM D5185m	>65	<1	<1	
Vanadium	ppm	ASTM D5185m	2 4	0	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	250	1	14	motory
Barium	ppm	ASTM D5185m	10	۱ <1	0	
Molybdenum	ppm	ASTM D5185m	100	69	78	
Manganese	ppm	ASTM D5185m	100	<1	<1	
Magnesium	ppm	ASTM D5185m	450	1060	1087	
Calcium	ppm	ASTM D5185m	3000	1209	1417	
Phosphorus	ppm	ASTM D5185m	1150	1145	1183	
Zinc	ppm	ASTM D5185m	1350	1376	1427	
Sulfur	ppm	ASTM D5185m	4250	3097	3903	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	5	
Sodium	ppm	ASTM D5185m	>216	2	4	
Potassium	ppm	ASTM D5185m	>20	10	7	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	11.5	10.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	20.9	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	17.9	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.5	6.9	
,						



OIL ANALYSIS REPORT

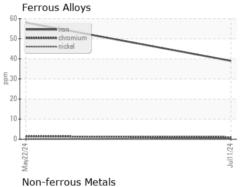


VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IEC	method	limit/base	current	historv1	historv2

14.7

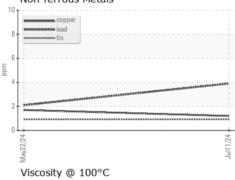
13.6

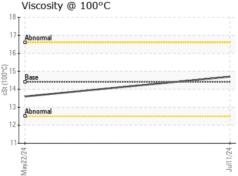
Visc @ 100°C **GRAPHS**

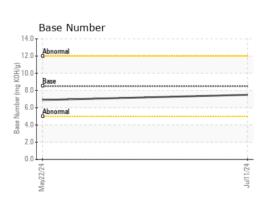


cSt

ASTM D445 14.4











Laboratory Sample No.

: SBP0007731 Lab Number : 06238984 Unique Number : 11127818

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2024 Tested : 18 Jul 2024

Diagnosed : 18 Jul 2024 - Wes Davis

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

BIG ROCK ENTERPRISES LLC

11884 LEWISTON LN GRETNA, NE US 68028

Contact: COREY RASMUSSEN bigrockenterprises@outlook.com

T: F:

Report Id: BIGGRENE [WUSCAR] 06238984 (Generated: 07/18/2024 10:41:31) Rev: 1

Submitted By: Joshua Kenney